

## Asst. Prof. OĞUZHAN TİMUR

### Personal Information

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**Address:** Çukurova Üniversitesi Elektrik Elektronik Mühendisliği Bölümü 01330 Balcalı/Sarıçam/Adana

### International Researcher IDs

ORCID: 0000-0002-6537-7840

Publons / Web Of Science ResearcherID: J-4689-2018

ScopusID: 56082896400

Yoksis Researcher ID: 131205

### Education Information

Doctorate, Cukurova University, Fen Bilimleri Enstitüsü, Elektrik-Elektronik Mühendisliği, Turkey 2013 - 2018

Postgraduate, Cukurova University, Fen Bilimleri Enstitüsü, Elektrik-Elektronik Mühendisliği, Turkey 2009 - 2013

Undergraduate, Cukurova University, Mühendislik Fakültesi, Elektrik-Elektronik Mühendisliği, Turkey 1994 - 2000

### Foreign Languages

English, C1 Advanced

### Dissertations

Doctorate, Design and implementation of a wireless sensor network for energy monitoring, analysis and management in smart buildings, Cukurova University, Fen Bilimleri Enstitüsü, 2018

Postgraduate, Energy efficiency improvement and energy saving opportunities at Çukurova University Balcalı Hospital, Cukurova University, Fen Bilimleri Enstitüsü, 2013

### Research Areas

Energy, Power System Analysis, Generating Stations and Plants, Renewable energy, Engineering and Technology

### Academic Titles / Tasks

Assistant Professor, Cukurova University, Mühendislik Fakültesi, Elektrik-Elektronik Mühendisliği, 2020 - Continues

Expert, Cukurova University, Rektörlük, Rektörlük, 2008 - 2013

### Academic and Administrative Experience

Deputy Head of Department, Cukurova University, Mühendislik Fakültesi, Elektrik-Elektronik Mühendisliği, 2021 - Continues

Uygulama ve Araştırma Merkezi Yönetim Kurulu Üyesi, Cukurova University, Mühendislik Fakültesi, Elektrik-Elektronik Mühendisliği, 2021 - Continues  
Staj Koordinatörü, Cukurova University, Mühendislik Fakültesi, Elektrik-Elektronik Mühendisliği, 2020 - Continues  
Mühendis, Cukurova University, Rektörlük, Rektörlük, 2013 - 2020

## Courses

Utilization of Electrical Energy , Undergraduate, 2022 - 2023, 2021 - 2022, 2020 - 2021  
Renewable Energy Systems, Postgraduate, 2021 - 2022, 2020 - 2021  
Energy Efficient Technologies in Electrical Systems, Postgraduate, 2022 - 2023, 2021 - 2022, 2020 - 2021  
Industrial Electronics, Undergraduate, 2021 - 2022, 2020 - 2021  
Industrial Electricity, Undergraduate, 2022 - 2023, 2021 - 2022, 2020 - 2021  
Electronic Circuits, Undergraduate, 2021 - 2022, 2020 - 2021, 2019 - 2020  
Logic Circuits, Undergraduate, 2021 - 2022

## Advising Theses

Timur O., Modeling and Simulation for Mitigation of Voltage Sags in Variable Frequency Drives, Postgraduate, H.YAŞAR(Student), 2022

## Published journal articles indexed by SCI, SSCI, and AHCI

- I. **Short-Term Building Electrical Energy Consumption Forecasting by Employing Gene Expression Programming and GMDH Networks**  
Zor K., Celik O., TİMUR O., TEKE A.  
ENERGIES, vol.13, no.5, 2020 (SCI-Expanded)
- II. **Development and testing of an energy saving tool - Suitability analysis with case study**  
TEKE A., TİMUR O., BAYINDIR K. Ç.  
INTERNATIONAL JOURNAL OF ELECTRICAL POWER & ENERGY SYSTEMS, vol.77, pp.59-69, 2016 (SCI-Expanded)
- III. **A simple methodology for capacity sizing of cogeneration and trigeneration plants in hospitals: A case study for a university hospital**  
TEKE A., ZOR K., TİMUR O.  
JOURNAL OF RENEWABLE AND SUSTAINABLE ENERGY, vol.7, no.5, 2015 (SCI-Expanded)
- IV. **Assessing the energy efficiency improvement potentials of HVAC systems considering economic and environmental aspects at the hospitals**  
Teke A., Timur O.  
RENEWABLE & SUSTAINABLE ENERGY REVIEWS, vol.33, pp.224-235, 2014 (SCI-Expanded)

## Articles Published in Other Journals

- I. **Development of a Low-Cost Monitoring and Warning System for a Data Processing Room**  
TİMUR O., TEKE A.  
Çukurova Üniversitesi Mühendislik Fakültesi dergisi, vol.38, no.2, pp.375-390, 2023 (Peer-Reviewed Journal)
- II. **Design and implementation of a microcontroller based split air conditioner control system**  
TİMUR O., TEKE A.  
Communications Faculty of Sciences University of Ankara Series A2-A3: Physical Sciences and Engineering, vol.64, no.2, pp.117-128, 2022 (Peer-Reviewed Journal)
- III. **Application of Statistical and Artificial Intelligence Techniques for Medium-Term Electrical Energy**

### **Forecasting: A Case Study for a Regional Hospital**

Timur O., Zor K., Çelik Ö., Teke A., İbrikçi T.

JOURNAL OF SUSTAINABLE DEVELOPMENT OF ENERGY, WATER AND ENVIRONMENT SYSTEMS, vol.8, no.3, pp.520-536, 2020 (ESCI)

- IV. **ENHANCEMENT OF A LOW-COST INTELLIGENT DEVICE FOR IMPROVING ENERGY EFFICIENCY IN BUILDINGS**  
TİMUR O., ZOR K., ÇELİK Ö., TEKE A.  
Communications Faculty of Sciences University of Ankara Series A2-A3: Physical Sciences and Engineering, vol.60, no.2, pp.103-128, 2018 (Peer-Reviewed Journal)
- V. **Design of a Solar Tracking System by Using Arduino**  
TİMUR O., TEKE A.  
International Journal of Scientific and Technological Research, vol.4, no.5, pp.23-30, 2018 (Peer-Reviewed Journal)
- VI. **Calculating Payback Periods for Energy Efficiency Improvement Applications at a University Hospital**  
Teke A., Timur O., Zor K.  
Çukurova Üniversitesi Mühendislik-Mimarlık Fakültesi Dergisi, vol.30, no.1, pp.41-56, 2015 (Peer-Reviewed Journal)
- VII. **Overview of Energy Savings and Efficiency Strategies at the Hospitals**  
TEKE A., TİMUR O.  
World Academy of Science, Engineering and Technology International Journal of Economics and Management Engineering, vol.8, no.1, pp.242-248, 2014 (Peer-Reviewed Journal)
- VIII. **Electric Motors and Variable Speed Drives at the Hospitals: An Overview**  
TEKE A., TİMUR O.  
Majlesi Journal of Energy Management, vol.2, no.3, pp.5-16, 2013 (Peer-Reviewed Journal)
- IX. **Lighting Systems at the Hospitals: An Overview**  
TEKE A., TİMUR O.  
Majlesi Journal of Energy Management, vol.2, no.2, pp.39-51, 2013 (Peer-Reviewed Journal)

### **Refereed Congress / Symposium Publications in Proceedings**

- I. **Effects of Voltage Sags on Variable Frequency Drives in Industrial Facilities**  
Üstünel H. Y., Timur O.  
6th International Conference on Engineering Technologies (ICENTE'22), Konya, Turkey, 17 - 19 November 2022, pp.180-183
- II. **Modeling and Design DC-DC Boost Converter for Solar Energy**  
Erdem H. G., Timur O.  
18 th International Conference of Young Scientists on Energy and Natural Sciences Issues 2022 (CYSENI2022), Kaunas, Lithuania, 24 - 27 May 2022, pp.57-68
- III. **Very Short-Term Internet of Things Based Forecasting of Air Conditioning Loads: A Case Study for a Server Room in a Hospital.**  
TİMUR O., ZOR K., ÇELİK Ö., TEKE A.  
Proceedings of the 2nd International Conference on Theoretical and Applied Computer Science and Engineering (ICTACSE2018), İstanbul, Turkey, 29 June 2020, vol.12, pp.22-25
- IV. **Development of an Intelligent Energy Measurement Device for Buildings.**  
TİMUR O., ZOR K., ÇELİK Ö., TEKE A.  
Proceedings of the 2nd International Conference on Theoretical and Applied Computer Science and Engineering (ICTACSE2018), İstanbul, Turkey, 29 June 2020, vol.16, pp.16-21
- V. **Very Short-Term Electrical Energy Consumption Forecasting of a Household for the Integration of Smart Grids.**  
Zor K., Timur O., Çelik Ö., Yıldırım H. B., Teke A.  
Official Conference Proceedings of the European Conference on Sustainability, Energy & the Environment

2018 (ECSEE2018), Brighton, United Kingdom, 06 July 2018, vol.1, pp.1-14

- VI. **Simple Approaches to Missing Data for Energy Forecasting Applications.**  
ZOR K., ÇELİK Ö., TİMUR O., YILDIRIM H. B., TEKE A.  
Proceedings of the 16th International Conference on Clean Energy (ICCE2018), Gazimagusa, Cyprus (Kktc), 09 May 2018
- VII. **Interpretation of Error Calculation Methods in the Context of Energy Forecasting.**  
ZOR K., TİMUR O., ÇELİK Ö., YILDIRIM H. B., TEKE A.  
Digital Proceedings of the 12th Conference on Sustainable Development of Energy, Water and Environment Systems (SDEWES2017), Dubrovnik, Croatia, 04 October 2017, vol.722, pp.1-9
- VIII. **Design and Implementation of Smart Energy Measurement Plug in Smart Buildings**  
TİMUR O., ZOR K., ÇELİK Ö., YILDIRIM H. B., TEKE A.  
Digital Proceedings of the 12th Conference on Sustainable Development of Energy, Water and Environment Systems (SDEWES2017), Dubrovnik, Croatia, 04 October 2017, vol.732, pp.1-12
- IX. **Comparative Investigation of Single-Stage and Multi-Stage Grid-Tie Micro-Inverters.**  
Çelik Ö., Tan A., Zor K., Timur O., Yıldırım H. B., Teke A.  
Digital Proceedings of the 12th Conference on Sustainable Development of Energy, Water and Environment Systems (SDEWES2017), Dubrovnik, Croatia, 04 October 2017, vol.7, pp.1-6
- X. **A State-of-the-Art Review of Artificial Intelligence Techniques for Short-Term Electric Load Forecasting**  
Zor K., TİMUR O., TEKE A.  
6th International Youth Conference on Energy (IYCE), Budapest, Hungary, 21 - 24 June 2017
- XI. **Developing a Software Program to Determine the Optimal Capacity Rating of Gas Engine Based Cogeneration and Trigeneration Plants for Unlicensed Generation of Electricity.**  
ZOR K., TEKE A., TİMUR O.  
Digital Proceedings of the 10th Conference on Sustainable Development of Energy, Water and Environment Systems (SDEWES2015), Dubrovnik, Croatia, 27 September 2015, vol.695

## Metrics

Publication: 25

Citation (WoS): 49

Citation (Scopus): 102

H-Index (WoS): 3

H-Index (Scopus): 3